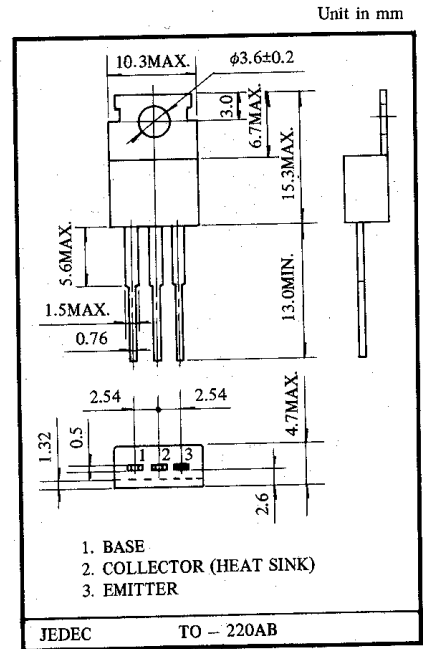


APPLICATIONS

- Audio Frequency Power Amplifier Applications.

FEATURES

- Low Collector Saturation Voltage
: $V_{CE(sat)} = -1.0V(\text{Max.})$ at $I_C = -3A, I_B = -0.3A$
- Collector Power Dissipation
: $P_c = 30W$ ($T_c = 25^\circ\text{C}$)
- Complementary to KTD880



MAXIMUM RATINGS ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	RATING	UNIT	CHARACTERISTIC	SYMBOL	RATING	UNIT
Collector-Base Voltage	V_{CBO}	-60	V	Collector Power Dissipation	P_c	1.5	W
Collector-Emitter Voltage	V_{CEO}	-60	V			$T_c = 25^\circ\text{C}$	
Emitter-Base Voltage	V_{EBO}	-7	V	Junction Temperature	T_j	150	$^\circ\text{C}$
Collector Current	I_C	-3	A	Storage Temperature Range	T_{stg}	-55 ~ 150	$^\circ\text{C}$
Emitter Current	I_E	3	A				

ELECTRICAL CHARACTERISTICS ($T_a = 25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CBO}	$V_{CB} = -60V, I_E = 0$	-	-	-100	μA
Emitter Cut-off Current	I_{EBO}	$V_{EB} = -7V, I_C = 0$	-	-	-100	μA
Collector-Emitter Breakdown Voltage	$V_{(BR)CEO}$	$I_C = -50mA, I_B = 0$	-60	-	-	V
DC Current Gain	$h_{FE(1)}$ (Note)	$V_{CE} = -5V, I_C = -0.5A$	60	-	200	-
	$h_{FE(2)}$	$V_{CE} = -5V, I_C = -3A$	20	-	-	-
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C = -3A, I_B = -0.3A$	-	-0.5	-1.0	V
Base-Emitter Voltage	V_{BE}	$V_{CE} = -5A, I_C = -0.5A$	-	-0.7	-1.0	V
Transition Frequency	f_T	$V_{CE} = -5V, I_C = -0.5A$	-	9	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB} = -10V, I_E = 0, f = 1MHz$	-	150	-	pF
Switching Time	Turn-on Time	T_{on}	-	0.4	-	μs
	Storage Time	T_{stg}	-	1.7	-	
	Fall Time	t_f	-	0.5	-	

NOTE: According to $h_{FE(1)}$ Classified as follows.

0	60 - 120	Y	100 - 200
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